PHASING DIAGRAM

Ø2+6   Ø4

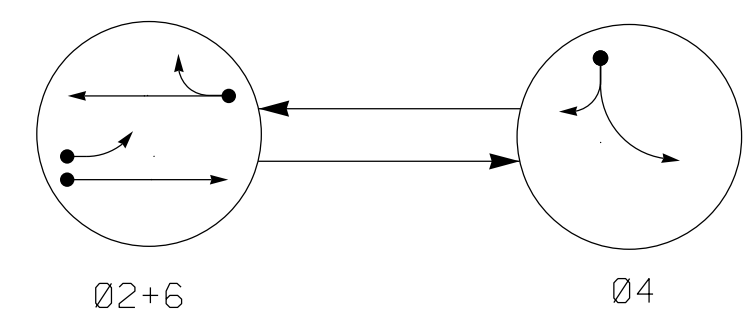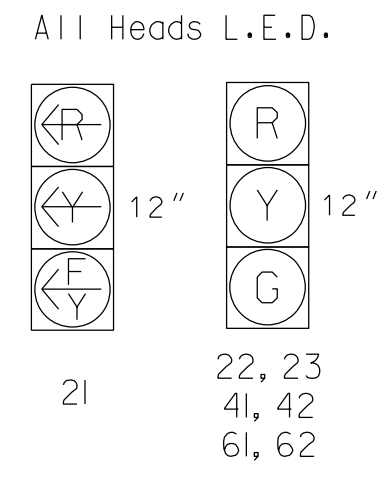### PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2+6	PHASE Ø4	FLASH
21	F,Y	R	Y
22, 23	G	R	Y
41, 42	R	G	R
61, 62	G	R	Y

SIGNAL FACE I.D.

All Heads L.E.D.

21   22, 23
            41, 42
            61, 62

ASC/3 DETECTOR INSTALLATION CHART

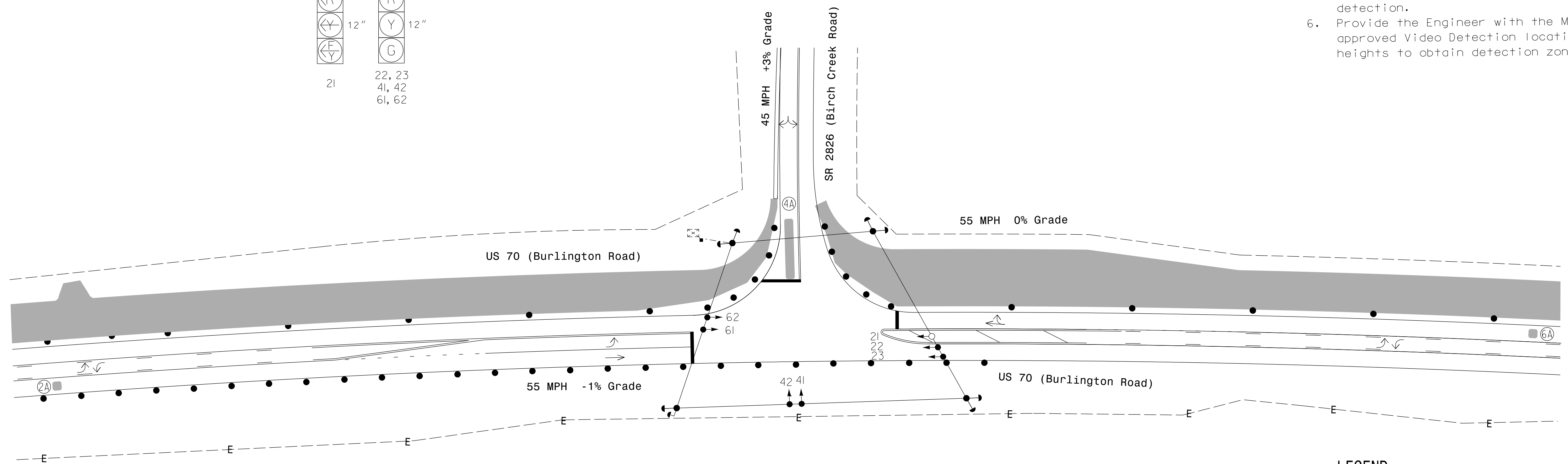|	DETECTOR				PROGRAMMING								
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
2A✱	6X6	420	✱	✱	2	Yes	–	–	X	N	–	–
4A✱	6X40	0	✱	✱	4	Yes	–	5	–	S	–	–
6A✱	6X6	420	✱	✱	6	Yes	–	–	X	N	–	–

✱ Video Detection Zone

2 Phase
Fully Actuated
(Isolated)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Set all detector units to presence mode.
4. Reposition all existing signal heads.
5. Incorporate Video Detection system for vehicle detection.
6. Provide the Engineer with the Manufacturer's approved Video Detection locations and mounting heights to obtain detection zones as shown.
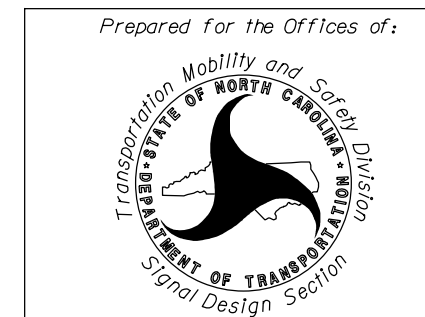

45 MPH +3% Grade
SR 2826 (Birch Creek Road)
55 MPH 0% Grade
US 70 (Burlington Road)
62
61
21 22 23
42 41
55 MPH -1% Grade
US 70 (Burlington Road)
2A
6A
4A

ASC/3 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 6
Min Green *	14	7	14
Walk *	–	–	–
Ped Clear	–	–	–
Veh. Extension *	6.0	2.0	6.0
Max 1 *	90	30	90
Yellow	5.3	3.0	5.2
Red Clear	1.2	2.1	1.0
Actuations B4 Add *	–	–	–
Seconds /Actuation *	2.5	–	2.5
Max Initial *	46	–	46
Time Before Reduction *	15	–	15
Time To Reduce *	30	–	30
Minimum Gap	3.4	–	3.4
Locking Detector	X	–	X
Recall Position	VEH RECALL	–	VEH RECALL
Dual Entry	–	–	–
Simultaneous Gap	X	X	X

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
	Video Detection Zone	N/A
	Construction Zone	N/A
	Construction Zone Drum	N/A

Signal Upgrade-Temporary Design 2 (TMP Phase II)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

US 70 (Burlington Road) at SR 2826 (Birch Creek Road)

Division 7	Guilford County	McLeansville
PLAN DATE: September 2019	REVIEWED BY: M. L. Stygles	
PREPARED BY: J. Ma	REVIEWED BY:	

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
033108
ENGINEER
JIANXIN MA

REVISIONS	INIT.	DATE

SIGNATURE
Jianxin Ma
9/9/2019
DATE

SCALE
0   40
1"=40'

SIG. INVENTORY NO. 07-1708T2

38656-04